

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number: **0 450 671 A1**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 91200336.5

(51) Int. Cl.⁵: **A61L 15/24, A61L 15/26,
A61L 15/60, A61F 13/00**

(22) Date of filing: 18.02.91

(30) Priority: 02.03.90 NL 9000494

(43) Date of publication of application:
09.10.91 Bulletin 91/41

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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(54) **Wound dressing and method of preparing the same.**

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(57) The invention relates to a wound dressing comprising (1) a lower layer of a hydrogel of a polymer cross-linked under the influence of electron beam (E.B.) radiation, to which optionally one or more medicinal and/or antibacterial agents and/or one or more auxiliary substances have been added, and (2) a polymeric top layer, in which the top layer consists at least substantially of an elastomer selected from the group consisting of a silicone rubber, a polyether-polyurethane copolymer, a polyester-polyurethane copolymer, a polyether-polyester copolymer and an optionally modified block copolymer based on suitable vinyl monomers, and

that a fibrous layer is provided between the lower layer and the top layer for bonding the two layers together.

The invention further relates to a method of preparing said wound dressing.